

ABSTRACT

A surface lighting device (100) includes a light guide plate (140), a plurality of point light sources (120), and a micro-lens array (130) for collimating light beams emitted from the point light sources into parallel rays. The light guide plate has a light incident surface (141). The point light sources are located opposite to the light incident surface. The micro-lens array is positioned between the point light source and the light incident surface, and the light guide plate and the point light source are placed at respective working distances from the micro-lens array. Divergent rays emitted from the point light sources are coupled into the light incident surface via the micro-lens array.